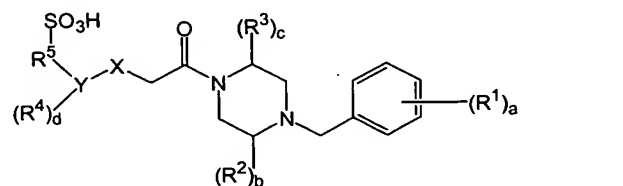


ABSTRACT

The present invention relates to methods of using CCR1 antagonists as immunomodulatory agents. In particular, the methods relate to using compounds of the formula



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or the pharmaceutically acceptable salt thereof; wherein X, Y, a, b, c, d, R¹, R², R³ and R⁵ are as defined herein.